



The Captioning Solutions Company

EEG Enterprises, Inc

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www.eegent.com



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PRODUCT GUIDE



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EEG PRODUCT GUIDE

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Take control of captioning.

EEG solutions put you in command of closed captioning. Broadcast, post, streaming, VOD, and live venues are evolving fast – keeping up can feel daunting. But EEG has been captioning ahead of the curve for over 25 years, constantly looking ahead to what's next.

EEG is more than just industry-leading hardware and software. Our people are what set us apart: from world-class support to custom creations, our customers know they can always get in touch.

When captioning is crucial to your content -- you need EEG.

EEG PRODUCT GUIDE

BROADCAST

HD490 The Center of it All



EEG's **HD490 Smart Encoder** is the center of the smartest broadcast captioning system available. It's the most advanced edition yet of our industry-standard digital closed captioning and HD VANC encoding solution. And instant iCap plus ComCC support are built right in.

Naturally it's compatible with all HD480 applications. Better yet, the **HD490** also supports the most advanced modules for Web streaming using live CC data captured into Timed Text files, or real-time data delivery through TCP or HTTP POST.

HD490 is also available for the openGear frame.

Get to the heart of a very smart system – EEG's HD490.

BROADCAST



EEG's iCap Secure Realtime IP Captioning System has transformed HD closed captioning. Efficient, easy, and intuitive, iCap is essential to an ever-growing number of broadcast plants nationwide.

Added power for iCap comes from the ComCC 1250 iCap Interface Card, a flexible and advanced virtualized telco connection tool featuring iCap account management. iCap and ComCC combine to form a unified and 100% redundant live encoding solution with higher density and lower operating expenses than traditional dial up systems.

iCap continues to open up a universe of possibilities for broadcasters. **This unparalleled system provides:**

- ▶ **Superior Quality Captioning With Lower Delay** - iCap enables captioning with higher accuracy and lower delay. It's renowned for high quality audio for improved word recognition, with audio latency frequently as low as 200 milliseconds.
- ▶ **Improved Cost Efficiency** - with a standard broadband connection, iCap eliminates the need for a pair of phone lines per channel (or even more expensive satellite equipment) for both broadcasters and caption service providers. Or, to save while preserving full dial up redundancy, ComCC virtualization enables access to multiple encoder channels through a single POTS pair.
- ▶ **Enhanced Security** - iCap uses a server based authentication, connection, and encryption model with all encoders safely behind existing firewalls.

- ▶ **Easy and Flexible Encoder Setup** - Encoders are identified by unique, configurable, net names that are easier to remember than modem numbers, and can be moved between different locations or devices as needed.
- ▶ **Robust Administrative Features** - iCap's built in administrative system allows broadcasters and caption agency administrators to monitor, manage and supervise the captioning process far more efficiently than ever before.
- ▶ **Comprehensive Monitoring** - With iCap, broadcasters can monitor the system using the iCap Admin website or iCap Broadcast Monitor software from anywhere.
- ▶ **Instant Caption Generation** - For the most basic captioning applications, the iCap VC software transmits basic real time captions created from any text source, including input from your keyboard, voice control software, or a simple formatted text file.

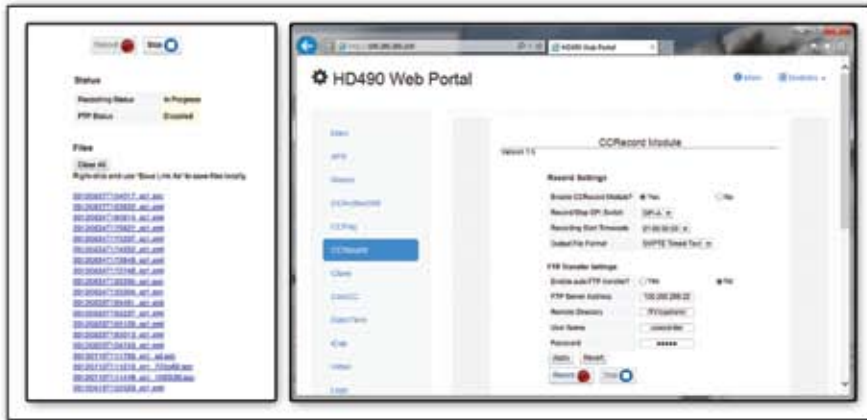
As iCap's user base constantly expands, so does its capabilities.

- ▶ **iCap Video** - low latency proxy video feedback to captioners enables intelligent caption positioning, essential for compliance with FCC mandates that captioning must not obscure banners, scoreboards, faces, or other essential action.
- ▶ **iCap Advanced Audio Delivery** - Specially equipped HD490 encoders using iCap can now provide real-time caption service providers with advanced program audio feedback. The result: perfect synchronization between video content and real-time captioning transcriptions.
- ▶ **Faster Turnaround on Near Live Programming with FilePro Live** - Need rapid captioning turnaround on near-to-air file-based video assets? FilePro Live connects MPEG or MXF assets from EEG's CCPlay FilePro post-production encoding suite to a network of hundreds of professional caption writers. Real-time writing and 15x stitching mean closed captioning can be written prior to air even on tight schedules, improving caption quality and reducing production risks.
- ▶ **iCap Archives** - iCap also supports local or cloud-based archiving of caption text and timing, for automatic compliance with new record-keeping requirements for closed captioning data.

CCRecord

EEG's **CCRecord** provides broadcasters and captioners with an easy-to-use, highly integrated solution for capturing as-run recordings of caption data. With **CCRecord**, creating complete as-run caption data files based on a program initially captioned in real-time is now a seamless process.

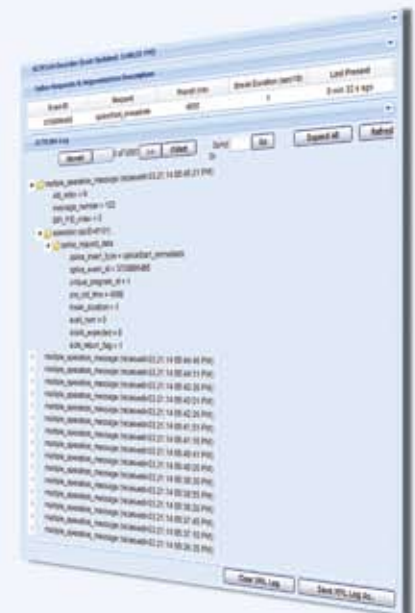
Create files with **CCRecord**, then immediately import them into caption editing software such as EEG's CaptionTrack for Apple® Final Cut Pro®. Modify the files for timing or to correct any transcription errors, then re-encode them to the video content for future airings.



SCTE-104 Suite

Get ready for more **SCTE 104**.

EEG's SCTE 104 insertion package, available on the HD490 or A1452 frame card, provides ease of use and maximum flexibility for triggering advertisements, localizations, and streaming DRM systems. Trigger messages through GPI, LAN, or an expanded preset editing system, and then ensure delivery through the DE285 VANC monitor. The DE285 provides the most comprehensive monitoring on the market for packet presence and timing, plus detailed parsing and interpretation. Missed triggers means missed revenue, but the DE285 never misses a beat.



CB515 LEGALIZER



EEG's CB515 DTV Caption Legalizer® is the next generation of the popular CB512, with an updated CEA-708 compliance engine that continues to preserve caption interoperability with an ever-changing array of set-top boxes, transmission encoders, video servers, and other devices. This award-winning compliance tool is nothing less than essential to broadcasters: It can almost completely eliminate broadcast engineers' downtime from DTV captioning-related difficulties, by ensuring a fully compliant CEA-608 and CEA-708 data stream. **The CB515** is also available in high-density multi-channel configurations using the openGear frame.

BROADCAST

DE285



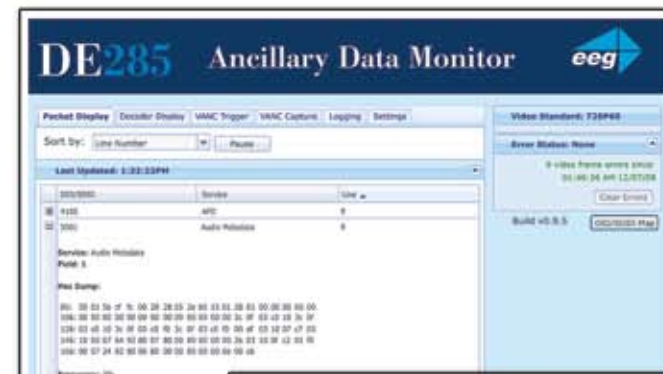
Streamline! **EEG's DE285 VANC Monitor and Caption Decoder** converges program monitoring and analysis with a two-in-one combo. It features a full resolution HD viewer displaying closed captioning, V-chip, AFD, and embedded audio levels, plus a detailed browser-based VANC analysis suite with the ability to pause, capture, view, and log every packet on every frame. Customizable alarms both on-screen and through the web complete this sleek and efficient must-have multi-tool for VANC data troubleshooting. The **DE285** is also available for the openGear frame.

LIVE MONITORING MADE EASY

- ▶ Native HD-SDI video burn-in
- ▶ Customizable onscreen data display
- ▶ Embedded audio level and phase monitoring for up to 8 channels
- ▶ HD caption monitoring
- ▶ AFD, XDS/V-Chip/CGMS-A, Audio Metadata
- ▶ Video error alarms
- ▶ Browser-based live caption monitoring from any LAN-connected PC

DETAILED ANALYSIS ON DEMAND

- ▶ Instantly troubleshoot with powerful Web-based tools
- ▶ Unprecedented level of analytical detail
- ▶ Sortable, filterable, live VANC data dump
- ▶ Able to capture, pause and view every VANC packet from every frame
- ▶ Customizable triggers to capture fast-moving data events
- ▶ Continuous logging of packet dropouts and video errors



Web Workflow: Get hands on with an extremely powerful web interface, offering possibly the most complete toolset yet for sifting and capturing live VANC data. The **EEG 285** system sorts data by its line location in VANC, by DID/SDID, or through decoding of known services. It also offers a full data dump for all packets, which can be frozen in place at any time for analysis.

See it All: The EEG **DE285** provides simultaneous on-screen display of all decoded data types, including captioning, SCTE 104, AFD (Active Format Descriptors), XDS including V-chip and CGMS-A, Audio Metadata, Broadcast Flag, and Embedded Audio levels. The built-in embedded audio monitor displays levels with peak holds for up to eight embedded channels, plus phase for stereo pairs.

EEG PRODUCT GUIDE

XDS

OUTDOOR LIFE

TV-G
Copy Once

AFD: 1111
AR: HD
BAR DATA: NO
Full 16:9
Alt 4x3 Center

The edge of the glacier lies
just beyond the ridge

POST-PRODUCTION

POST-PRODUCTION

Go Pro for Post – CCPlay FilePro

EEG leads the way in post with CCPlay FilePro, our professional tool for file-based closed caption workflow.

Capable of performing high-res MPEG and MXF caption encoding at rates of 10X real-time or more, CCPlay FilePro brings maximum post closed captioning efficiency, accuracy, reliability and intuitive operation to Windows workstations.

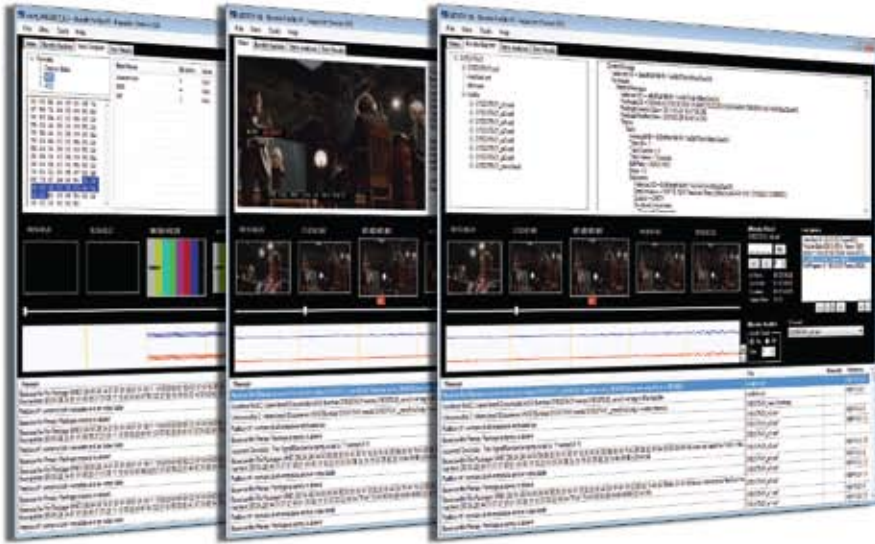
This highly streamlined solution now includes a new bundled player, which decodes caption data accurately and completely in MPEG Transport Streams, MXF OP-1A, MXF AS-02, QuickTime, and more. Equipped with a simple caption offset preview, it ensures perfect synchronization between captions and audio/video content.

CCPlay FilePro also now features a fast, efficient process for insertion of Video Description Services (VDS) into MXF bundles, without time-consuming re-compression of pre-existing video and audio tracks.



POST-PRODUCTION

FilePro Inspector



When it comes to QC, nothing gets past FilePro Inspector. EEG's comprehensive **new QC tool** allows broadcasters and post production facilities to run automated validation tests on MXF AS-02 bundles with unprecedented speed and efficiency. It also includes manual follow-up features, giving you intuitive and insightful views into bundle structure, essence, and metadata with unique clarity and precision. And experience the new "Normalizer" feature, which features automatic and rapid manual correction of many common AS-02 bundles irregularities.

Features of FilePro Inspector include:

- ▶ Flexible profile creation to tailor inspection results to custom contribution requirements
- ▶ Detects proper wrapping of each media essence component in the bundle
- ▶ Detects mismatches between top-level metadata and bundle contents
- ▶ Detects common problems with closed captioning and ancillary data
- ▶ Decodes and displays JPEG 2000 video essence in all common frame rates

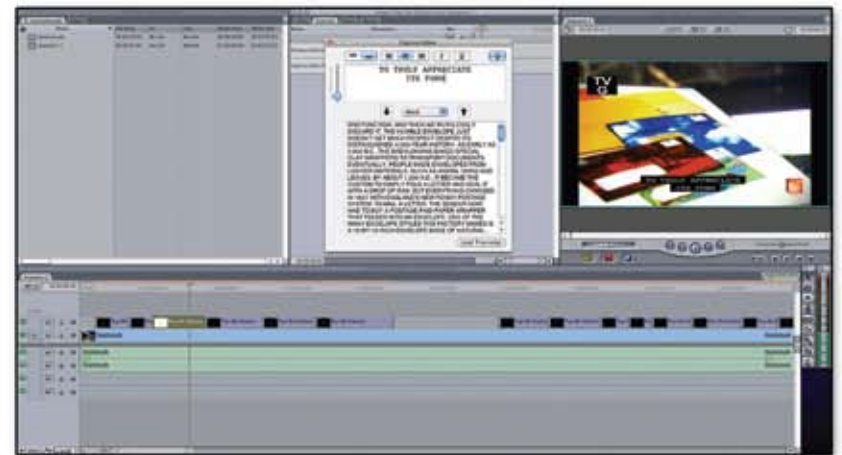
SpotFix

Speed up with SpotFix, EEG's post-production fix-up and QC editor for MXF AS02 bundles with closed caption stitching and powerful ancillary data tools. **SpotFix** supports the MXF and JPEG-2000 standards, replaces tape-based operations and enables local repairs to files without re-doing QC of the entire program.



CaptionTrack

Editors appreciate EEG's CaptionTrack, a professional closed caption editing plug-in for Apple® Final Cut Pro®. Optimized for the Final Cut environment, **CaptionTrack** gives editors and producers an easy-to-use and cost-effective tool for authoring, caption rework, and simultaneous timeline-based editing with video and audio tracks – all within Final Cut.



EEG PRODUCT GUIDE



STADIUMS AND VENUES

STADIUMS AND VENUES

Reach Every Fan

EEG's solutions streamline mobile production and in-stadium captioning. iCap, EEG's Secure Realtime IP Captioning System, makes it quick and easy to connect remote captioners to an on-location truck: Since iCap does not require phone lines or a fixed IP address, mobile production providers can simply plug-and-play with any broadband connection. EEG's HD490 Smart Encoder comes bundled with iCap, creating a portable link to the widest network of real time CC service providers.

For scoreboard displays, the HD490 and DE285 HD Caption Decoder/VANC Monitor team up for a straightforward path to transcribing announcements to scoreboards and in-house IPTV channels, ensuring full text accessibility for everyone in attendance. And iCap on the HD490 efficiently links venues to local or remote service providers for realtime on-scoreboard captioning.

How great would it be to stream live in-stadium captioning straight to fans' mobile devices? That's iCap CaptionCast. A browser-based mobile application, CaptionCast streams live captioning to smart phones, PDA's, and other hand-held devices. Put public address captioning directly into the hands of those who want and need it, all while seamlessly integrating your facility's caption authoring system.

Does your broadcast CC go multi-screen?

CCRecord is optimal for **VOD** – it's an easy-to-use, highly integrated solution for capturing as-run recordings of caption data (see p. 6 for more details).

CCPlay FilePro is our professional tool for file based closed caption workflow, with powerful features for streaming video. Encode or extract caption files in mp4, QuickTime, Transport Streams and more, using popular web caption formats including Timed Text, DXFP, SRT, and SCC.

Live Streaming solutions - HD490 modules to uplink through Flash, HTTP
If you're live streaming, you need EEG's HD490. It supports the latest modules for Web streaming using live CC data captured into Timed Text files, or real-time data delivery through HTTP POST or Flash/RTMP.

